CLAIMS

- (Currently Amended) A method for the production of thrombin from anticoagulated whole blood for formation of a wound healing material, comprising:
 - a) obtaining a volume of anticoagulated whole blood from a subject;
 - mixing said anticoagulated whole blood with ethanol at room temperature;
 - c) incubating the mixture of b) at room temperature for a time sufficient to produce a cellular and specific plasma component precipitate and a supernatant;
 - d) separating the precipitate from the supernatant; and
 - recovering the supernatant wherein said supernatant contains a thrombin preparation comprising 80-90% of prothrombin-thrombin proteins, no detectable fibrinogen and 20-30% of baseline levels of anti-thrombin III (ATIII).
- (Original) The method of claim 1, wherein the volume of anticoagulated whole blood is between 8 to 10 ml.
- (Previously Presented) The method of claim 1, wherein the whole blood is
 anticoagulated with an anticoagulant selected from the group consisting of acid
 citrate dextrose (ACD), ACD/mannitol, citrate phosphate dextrose (CPD), and
 ethylenediaminetetraacetic acid (EDTA).
- (Original) The method of claim 3, wherein the whole blood is anticoagulated with acid-citrate-dextrose.

5. (Original) The method of claim 3, where the whole blood is anticoagulated with ACD/mannitol. 6. (Original) The method of claim 5, wherein the mannitol is present in a concentration of 7.5 mg/ml ACD. 7. (Currently Amended) The method of claim 1, wherein the mixing step with ethanol results in precipitation precipitating agent is ethanol. 8. (Original) The method of claim 7, where said ethanol used is at a starting concentration of about 10% to 100%. 9. (Original) The method of claim 8, where said ethanol used is at a starting concentration of about 25% to 95%. 10. (Original) The method of claim 9, where said ethanol used is at a starting concentration of about 50% to 95%. 11. (Currently Amended) The method of claim 1, wherein calcium chloride is added with ethanol at the mixing step, the precipitating agent is a mixture of ethanol and calcium chloride

12. (Original) The method of claim 1, wherein the incubation step requires less

than 45 minutes

15. (Currently Amended) The method of claim 1, wherein the coagulant prepared said thrombin is homologous.
16. (Original) The method of claim 1, wherein said separating step is accomplished by centrifuging the mixture.
17. (Original) The method of claim 1, wherein said separating step is accomplished by filtering the mixture.
18. (Original) The method of claim 1, wherein said separating step is accomplished by a combination of centrifugation and filtration of the mixture.
19. (Cancelled).
20. (Withdrawn) A human blood fraction produced by the method of claim 1 comprising 80-90% of prothrombin-thrombin proteins, no detectable fibrinogen and 20-30% of baseline levels of ATIII, Protein C and Protein S.

13. (Original) The method of claim 1, wherein the incubation step requires less

14. (Currently Amended) The method of claim 1, wherein the coagulant prepared

than 30 minutes.

said thrombin is autologous.

- 21. (Previously Presented) The method of claim 22, wherein said blood derivative is chosen from the group consisting of a platelet concentrate (PC), platelet rich plasma (PRP), platelet poor plasma (PPP), purified fibrinogen or a mixture thereof to obtain a wound healing composition.
- 22. (Previously Presented) A method for the production of a wound healing material, consisting of:
 - a) obtaining a volume of anticoagulated whole blood from a subject;
- b) mixing said anticoagulated whole blood with ethanol at room temperature;
- c) incubating the mixture of b) at room temperature for a time sufficient to produce a cellular and specific plasma component precipitate and a supernatant;
 - d) separating the precipitate from the supernatant; and
- e) recovering the supernatant wherein said supernatant contains thrombin; and
- f) combining said supernatant with a blood derivative to form a wound healing material.